

# Release A CDR RID Report

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Originator John C. Lyon

Phone No 301-286-5713

Organization NASA Code 500

E Mail Address jlyon@pop500.gsfc.nasa.gov

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Figure Table

Category Name Management

Actionee ECS

Sub Category

Subject ECS System, Software Development

## Description of Problem or Suggestion:

The three-phase software development breakout was, by admission, short, as determined by the in-house cost modeling. The chart exhibits one specific instance of excess, but the entire schedule is evidently undesirably compacted. Strong coupling by precedence was not implied between the phases, and one is prompted to ask if a two-phase breakout would not work better, with substantially reduced risk (and even cost).

## Originator's Recommendation

Provide rationale for 3-phase (vs. 2) Quantify risks associated with the exhibited strategy, and cost differences between the 2 and 3-phase approaches.

## GSFC Response by:

## GSFC Response Date

HAIS Response by: Jacob Eisenstein

HAIS Schedule 9/13/95

HAIS R. E. D. Keener

HAIS Response Date 11/1/95

The rationale for the 3 phase development approach is to:

1. Identify potential problems early in the development phase.
2. Build a little, test a little to avoid and minimize surprises.
3. Provide infrastructure functionality required by multiple subsystems first.
4. Begin integration and test phase earlier, thus providing more time for integration and test.
5. Conduct integration and test in parallel with implementation reducing schedule risk by providing more time for implementation.

The 2 Phase approach would:

1. Not allow potential problems to be identified earlier in the development phase.
2. Delay infrastructure functionality.
3. Provide less time for integration and test.

There would be no cost differences between a 2 phase and 3 phase approach. A 2 phase approach could cause potential schedule impacts.

Status **Closed**

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Sponsor **Folts/Szczur**

\*\*\*\*\* Attachment if any \*\*\*\*\*